**NAME: DATE:**

**ECOLOGY QUIZ**

**I. Multiple Choice. For each of the questions below, circle the best answer. (2 points each)**

1. Non-Living things within our environment can exist:
2. With other living things
3. In ecosystems
4. With other non-living things
5. All of the Above
6. Population Density is the ratio of:
7. Total Population x Individuals living in an area
8. Total Population living in an area/Total Area
9. Total Population living in an area/Total Area+ Individuals living in an area
10. Individuals living in an area2/Total individuals
11. A Biosphere can be described as:
12. Earth and all its populations
13. Earth and all its communities
14. All of the Above
15. None of the Above
16. An example of a population would be:
17. An Elephant
18. A Herd of Elephants
19. Elephants amongst Giraffes
20. Both B and C
21. Water is classified as a(n)\_\_\_\_\_, while Temperature is classified as a(n)\_\_\_\_\_\_\_\_, and Soil is classified as a(n)\_\_\_\_\_\_\_\_.
22. Biotic Factor, Abiotic Factor, Abiotic Factor
23. Abiotic Factor, Abiotic Factor, Abiotic Factor
24. Abiotic Factor, Abiotic Factor, Biotic Factor
25. Abiotic Factor, Biotic Factor, Abiotic Factor

**II.True or False: For each of the following statements, write True if the statement is correct, or False if the statement is incorrect. (2 points each)**

1. \_\_\_\_\_\_\_\_\_All living things contain cells and have the ability to reproduce.
2. ­­\_\_\_\_\_\_\_\_\_An Ecosystem can be made up of both biotic and abiotic factors.
3. \_\_\_\_\_\_\_\_\_A Community can be made up of populations of organisms.
4. \_\_\_\_\_\_\_\_\_A Population can be made up of both biotic and abiotic factors.
5. \_\_\_\_\_\_\_\_\_Within the hierarchy of biological organization, the terms individual,

species, as well as organism are all interchangeable.

**III. Short Answer. Complete the following questions.**

1. List the Hierarchy of Biological Organization in ascending order. (5 points)

1.

2.

3.

4.

5.

1. Calculate the Population Density of all the students in our classroom. Raise your hand when you need a calculator and it will be provided. (3 points).

(Hint: total area of our classroom is 60m2 )

1. Explain how availability of natural resources for organisms in an ecosystem may change over time as the population density of a given area increases. (2 points)